

| | | | |
|--|------------------------|--|------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(Not for submission under 37 CFR 1.99)</small> | Application Number | | 09373403 |
| | Filing Date | | 1999-08-12 |
| | First Named Inventor | | Arathoon |
| | Art Unit | | 1642 1643 |
| | Examiner Name | | Anne L. Holleran |
| | Attorney Docket Number | | 11669.133USC1 |

| U.S.PATENTS | | | | | | Remove |
|-------------------|---------|---------------|------------------------|------------|---|--|
| Examiner Initial* | Cite No | Patent Number | Kind Code ¹ | Issue Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
| ALH | 1 | 5591828 | | 1997-01-07 | Klaus Bosslet | |

If you wish to add additional U.S. Patent citation information please click the Add button.

| U.S.PATENT APPLICATION PUBLICATIONS | | | | | | Remove |
|-------------------------------------|---------|--------------------|------------------------|------------------|---|--|
| Examiner Initial* | Cite No | Publication Number | Kind Code ¹ | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
| | 1 | | | | | |

If you wish to add additional U.S. Published Application citation information please click the Add button.

| FOREIGN PATENT DOCUMENTS | | | | | | Remove | | |
|--------------------------|---------|--------------------------------------|---------------------------|------------------------|------------------|---|--|--------------------------|
| Examiner Initial* | Cite No | Foreign Document Number ³ | Country Code ² | Kind Code ⁴ | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear | T5 |
| | 1 | | | | | | | <input type="checkbox"/> |

If you wish to add additional Foreign Patent Document citation information please click the Add button.

| NON-PATENT LITERATURE DOCUMENTS | | | | | | Remove |
|---------------------------------|---------|---|--|--|--|--------------------------|
| Examiner Initials* | Cite No | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published. | | | | T5 |
| | | | | | | <input type="checkbox"/> |

| | | |
|---|------------------------|------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Not for submission under 37 CFR 1.99)</i> | Application Number | 09373403 |
| | Filing Date | 1999-08-12 |
| | First Named Inventor | Arathoon |
| | Art Unit | 1642 1643 |
| | Examiner Name | Anne L. Holleran |
| | Attorney Docket Number | 11669.133USC1 |

| | | | |
|-----|---|---|--------------------------|
| Alt | 1 | COX, et al., A Directory of Human Germ-line Vx Segments Reveals a Strong Bias in Their Usage Eur. J. Immunol., 1994, 24:827-836 | <input type="checkbox"/> |
| | 2 | REITER et al., Engineering Interchain Disulfide Bonds into Conserved Framework Regions of Fv Fragments: Improved Biochemical Characteristics of Recombinant Immunotoxins Containing Disulfide-Stabilized Fv Protein Engineering, Vol. 7, No. 5, pp. 697-704, 1994 | <input type="checkbox"/> |
| | 3 | MARIUZZA RA, et al., The Structural Basis of Antigen-Antibody Recognition Annu. Rev. Biophys. Biophys. Chem. 1987; 16:139-59 | <input type="checkbox"/> |
| | 4 | GIUSTI AM, et al., Somatic Diversification of S107 from an Antiphosphocholine to an Anti-DNA Autoantibody is Due to a Single Base Change in its Heavy Chain Variable Region Proc. Natl. Acad. Sci. USA. 1987 May; 84(9):2926-2930 | <input type="checkbox"/> |
| | 5 | CHIEN NC, et al., Significant Structural and Functional Change of an Antigen-Binding Site by a Distant Amino Acid Substitution: Proposal of a Structural Mechanism Proc. Natl. Acad. Sci. USA. 1989 Jul; 86(14): 5532-6 | <input type="checkbox"/> |
| | 6 | CALDAS C, et al., Humanization of the Anti-CD18 Antibody 6.7: an Unexpected Effect of a Framework Residue in Binding to Antigen Mol. Immunol. 2003 May; 39 (15): 941-952 | <input type="checkbox"/> |
| | 7 | WILLIAMS ET AL., Cloning and Sequencing of Human Immunoglobulin V1 Gene Segments Eur. J. Immunol., 1993, 23:1456-1461 | <input type="checkbox"/> |
| | 8 | LUO et al., V1-Linker-Vh Orientation-Dependent Expression of Single Chain Fv Containing an Engineered Disulfide-Stabilized Bond in the framework Regions J. Biochem, 118, 825-831 (1995) | <input type="checkbox"/> |
| ↓ | 9 | NIEBA et al., Disrupting the Hydrophobic Patches at the antibody Variable/Constant Domain Interface: Improved in vivo Folding and Physical Characterization of an Engineered scFv Fragment Protein Engineering, vol. 10, No. 4, pp. 435-444, 1997 | <input type="checkbox"/> |

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

| | | | |
|--------------------|-------------------------|-----------------|-----------|
| Examiner Signature | <i>Anne L. Holleran</i> | Date Considered | 5/10/2006 |
|--------------------|-------------------------|-----------------|-----------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.